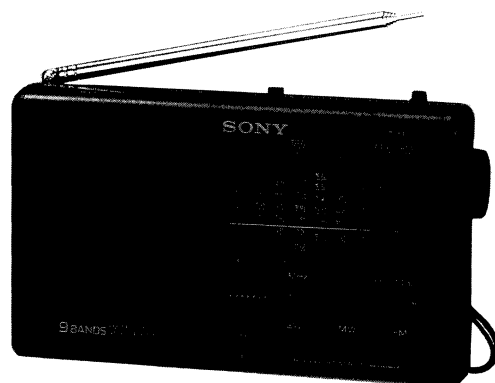


ICF-SW15

SERVICE MANUAL



*US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model*

SPECIFICATIONS

Frequency range	FM: 76 – 108 MHz (US, Canadian, E, Australian, Tourist models) 87.6 – 107.5 MHz (AEP, UK, Italian, Saudi Arabia models) IF: 10.7 MHz SW1: 5.775 – 6.425 MHz SW2: 6.875 – 7.525 MHz SW3: 9.375 – 10.025 MHz SW4: 11.615 – 12.265 MHz SW5: 15.00 – 15.65 MHz SW6: 17.50 – 18.15 MHz SW7: 21.325 – 21.975 MHz 1st IF: 10.7 MHz 2nd IF: 455 kHz MW: 530 – 1,710 kHz (US, Canadian, E, Australian, Tourist models) 531 – 1,602 kHz (AEP, UK, Italian, Saudi Arabia models) IF: 455 kHz
Antenna	FM/SW: Telescopic antenna MW: Built-in ferrite bar antenna
Speaker	Approx. 6.6 cm (2½ inches) dia. 4Ω
Power output	260 mW (at 10% harmonic distortion)
Output	Earphone jack (minijack)
Power requirements	4.5 V DC, three R6 (size AA) batteries DC IN 4.5 V jack accepts: AC power adaptor AC-E45M (not supplied) Car battery cord DCC-E145L (not supplied)
Battery life	Approx. 27 hours with Sony SUM-3 (NS)
Dimensions	Approx. 165 × 99 × 35 mm (w/h/d) (6½ × 4 × 1½ inches)
Weight	Approx. 380 g (13.4 oz) incl. batteries
Supplied accessories	Carrying case (1), Short wave guide (1)
Accessories not supplied	AC power adaptor *AC-E45M Car battery cord DCC-E145L LW/MW/SW wide range antenna AN-1 Earphone ME-81

Features

- FM/MW/SW1-7 9 band receiver with high sensitivity and selectivity.
- Band spread system enables you to easily tune in SW stations.
- Dual conversion circuit effectively reduces SW bands interference from other SW stations.

Notes

- When the AC power adaptor is not used, be sure to unplug it both from the DC IN 4.5 V jack and from a wall outlet.
- Use only the AC power adaptor AC-E45M (not supplied). Do not use any other AC power adaptor.



Polarity of the plug

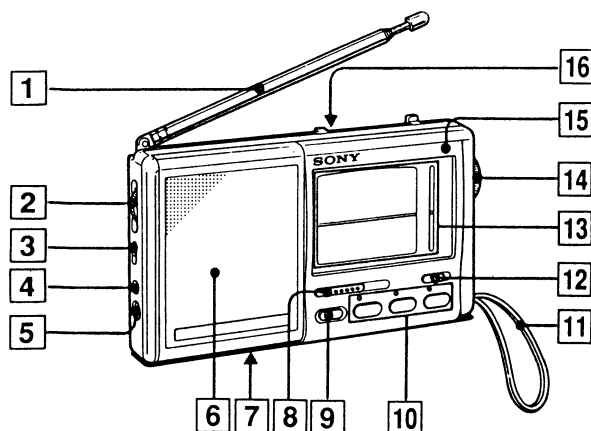
**FM/MW/SW₁₋₇
9 BAND RECEIVER
SONY®**



* The voltage of power supply is different depending on the country. Please buy an AC power adaptor in the country where the radio is to be used.

Design and specifications subject to change without notice.

Parts Identification

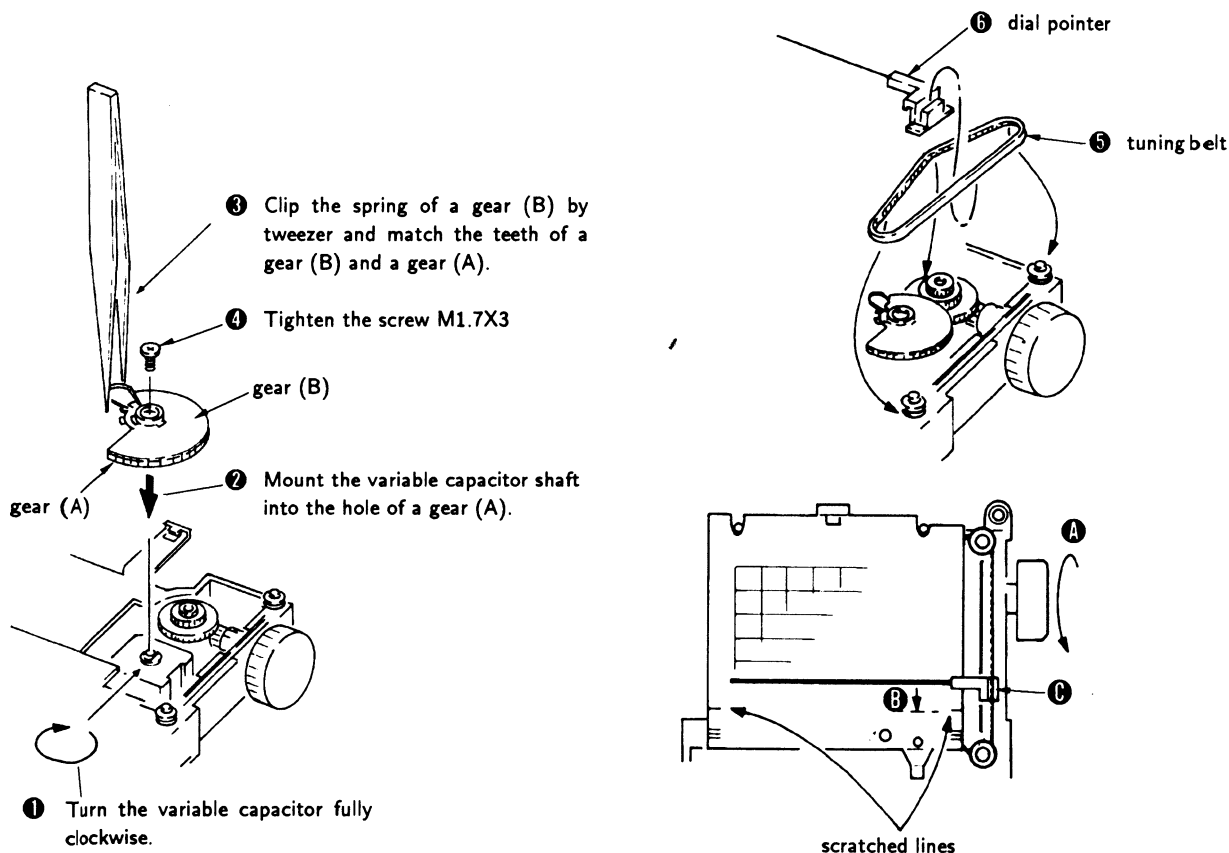


- 1 Telescopic antenna
- 2 VOLUME control
- 3 TONE (MUSIC/NEWS) selector
MUSIC: for listening to the music
NEWS: for listening to news, etc.
- 4 ⌀ (earphone) jack
- 5 DC IN 4.5 V (external power input) jack
- 6 Speaker
- 7 Battery compartment (bottom)
- 8 SW BAND SELECTOR
- 9 OFF (power off) button
- 10 POWER ON/BAND FM/MW/SW buttons and indicators
When you press one of the buttons, the unit is turned on and the indicator lights up.
- 11 Hand strap
- 12 HOLD switch
Slide it in the direction of the arrow (HOLD):
When listening, to avoid accidental change of the functions.
When not using, to prevent accidental pressing to turn the power on.
- 13 Dial scales
- 14 TUNING control
- 15 TUNE (tuning) indicator
The indicator lights up when a signal is received.
- 16 Stand (rear)

[B] How to use the stand

SECTION 1 DIAL POINTER SETTING

Note : Follow the assembly procedure in the numerical order given.

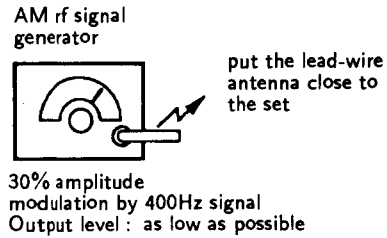


- 1 First, turn the tuning shaft fully in the arrow A direction. Move only the dial pointer in the arrow B direction and set it on the scratched lines on the dial scale plate. Apply suitable locking compound to C portion.

SECTION 2 ELECTRICAL ADJUSTMENTS

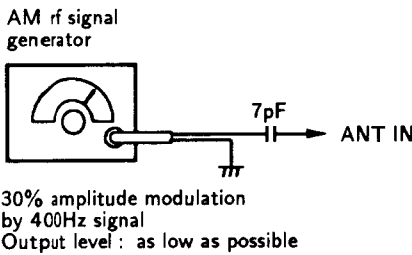
【MW SECTION】

BAND switch : MW



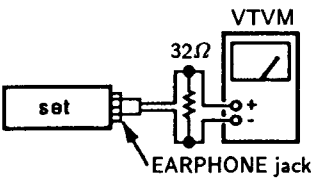
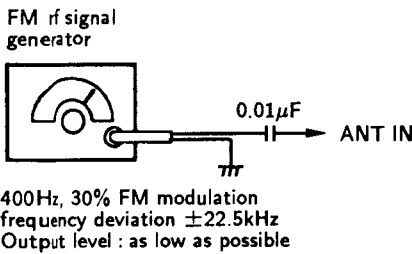
【SW SECTION】

BAND switch : SW



【FM SECTION】

BAND switch : FM



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.
- SW1 to 7 Tracking Adjustment frequencies are in a line on the scale.
Therefore, on adjusting, first SW1 6.1 MHz and after adjust SW2 to 7 Tracking without moving the dial pointer.

() : AEP, UK, Germany, Italian, Saudi Arabian model

MW IF ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T3	455 kHz

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L15	520 kHz
CT2-3	1750 kHz (1650 kHz)

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L12	620 kHz
CT2-4	1400 kHz

SW IF (1) ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T1	10.6 MHz

SW IF (2) ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T2	455 kHz

SW1 FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T4	5.75 MHz
CT1	6.45 MHz

SW1 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L1	6.1 MHz

SW2 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L2	7.2 MHz

SW3 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L3	9.7 MHz

SW4 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L4	11.94 MHz

SW5 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L5	15.325 MHz

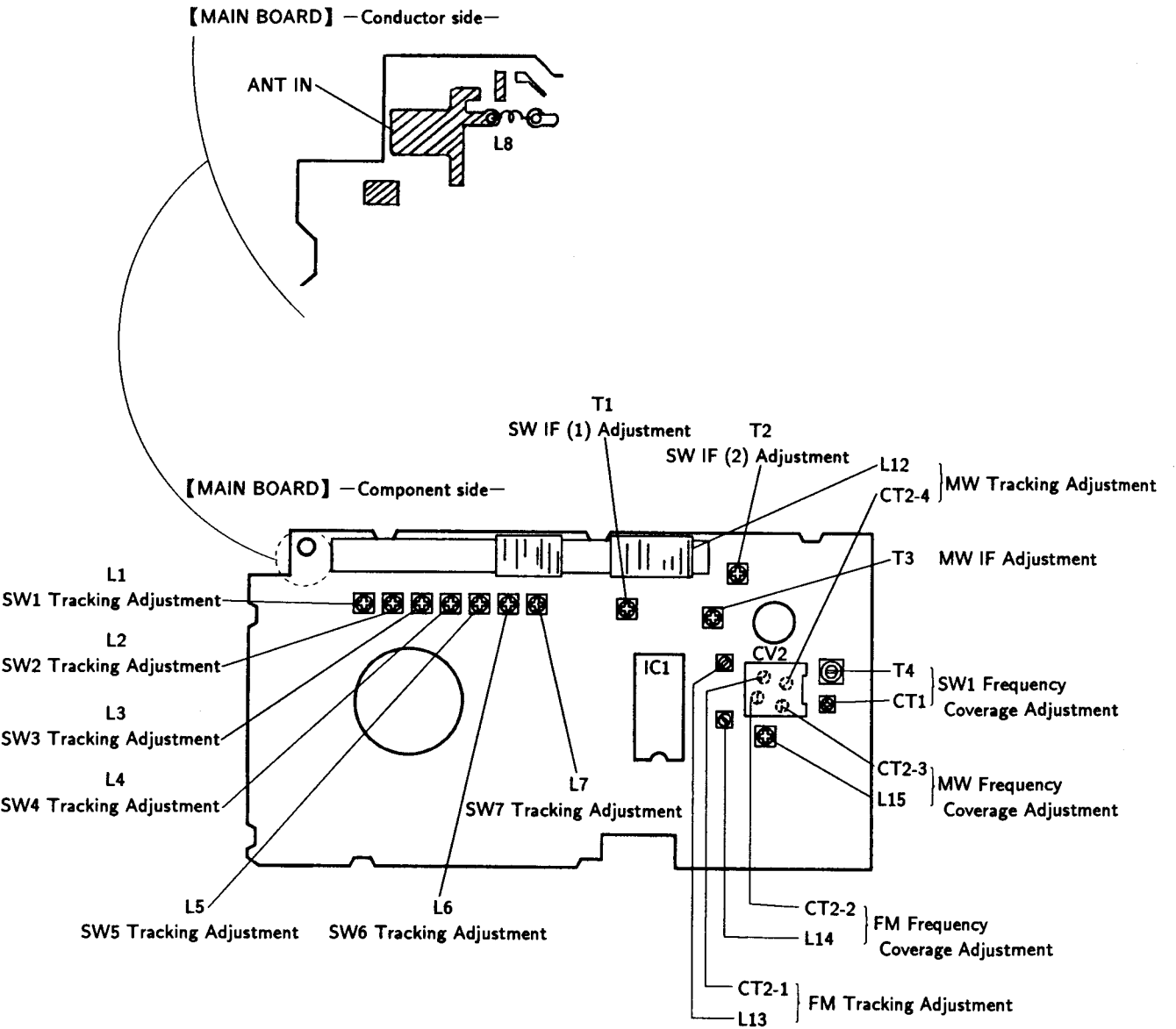
SW6 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L6	17.825 MHz

SW7 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L7	21.65 MHz

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L14	75.0 MHz (87.35 MHz)
CT2-2	109.5 MHz (108.05 MHz)

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L13	80 MHz (87.35 MHz)
CT2-1	104 MHz (108.05 MHz)

ADJUSTMENT LOCATION

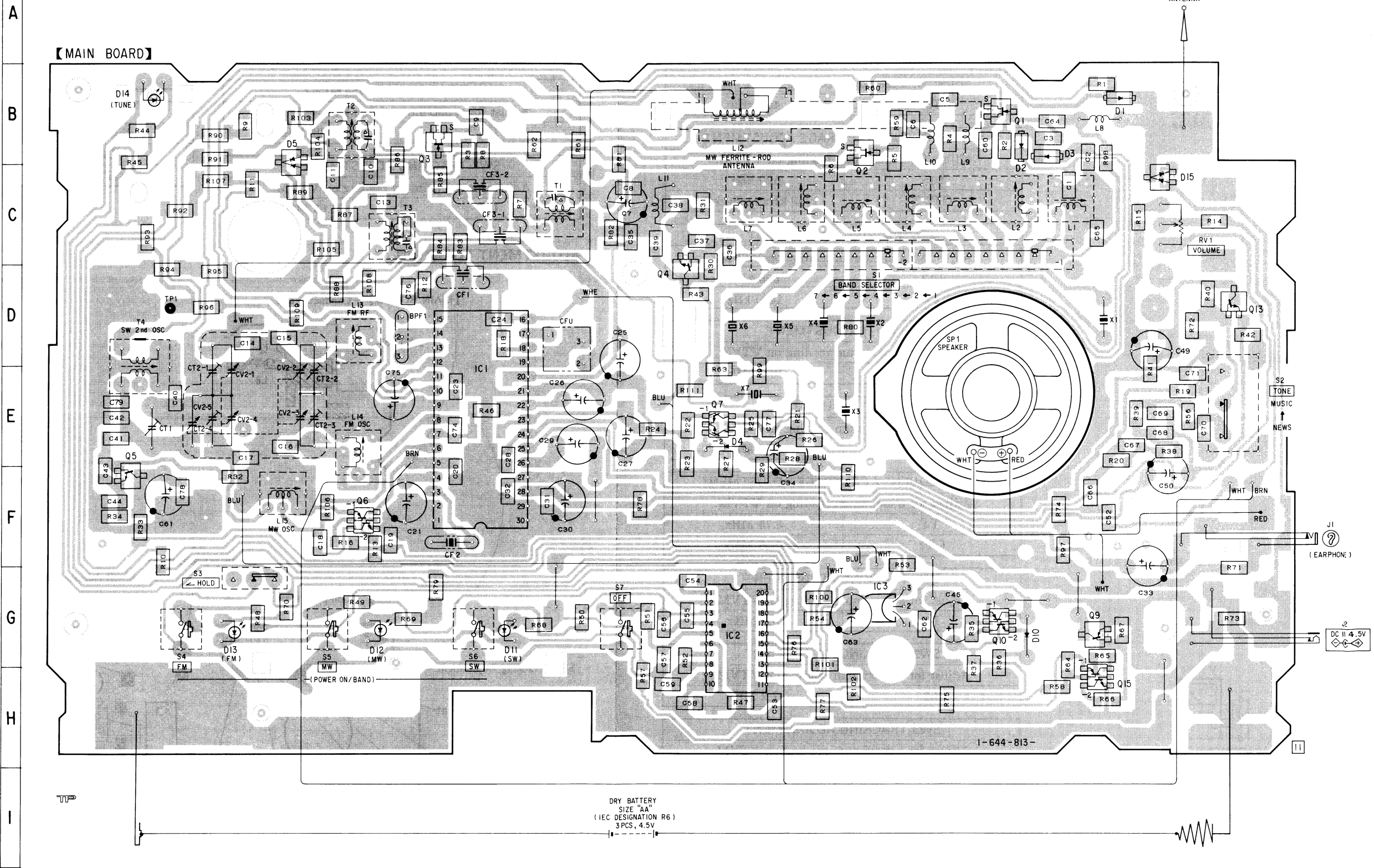


SECTION 3
DIAGRAMS

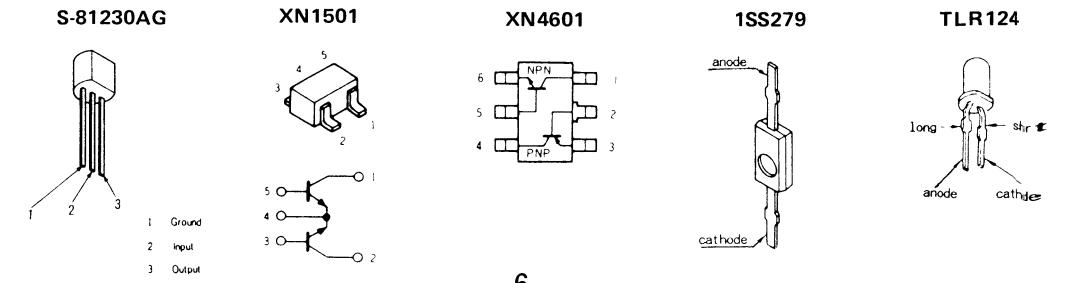
• Semiconductor
Location

Ref. No.	Location
D1	B-11
D2	B-10
D3	B-11
D4	E-7
D5	B-3
D10	G-10
D11	G-5
D12	G-4
D13	G-3
D14	B-2
D15	C-12
IC1	E-5
IC2	G-8
IC3	G-9
Q1	B-10
Q2	B-9
Q3	B-5
Q4	D-7
Q5	F-2
Q6	F-4
Q7	E-7
Q9	G-11
Q10	G-10
Q13	D-13
Q15	H-11

3-1. PRINTED WIRING BOARDS



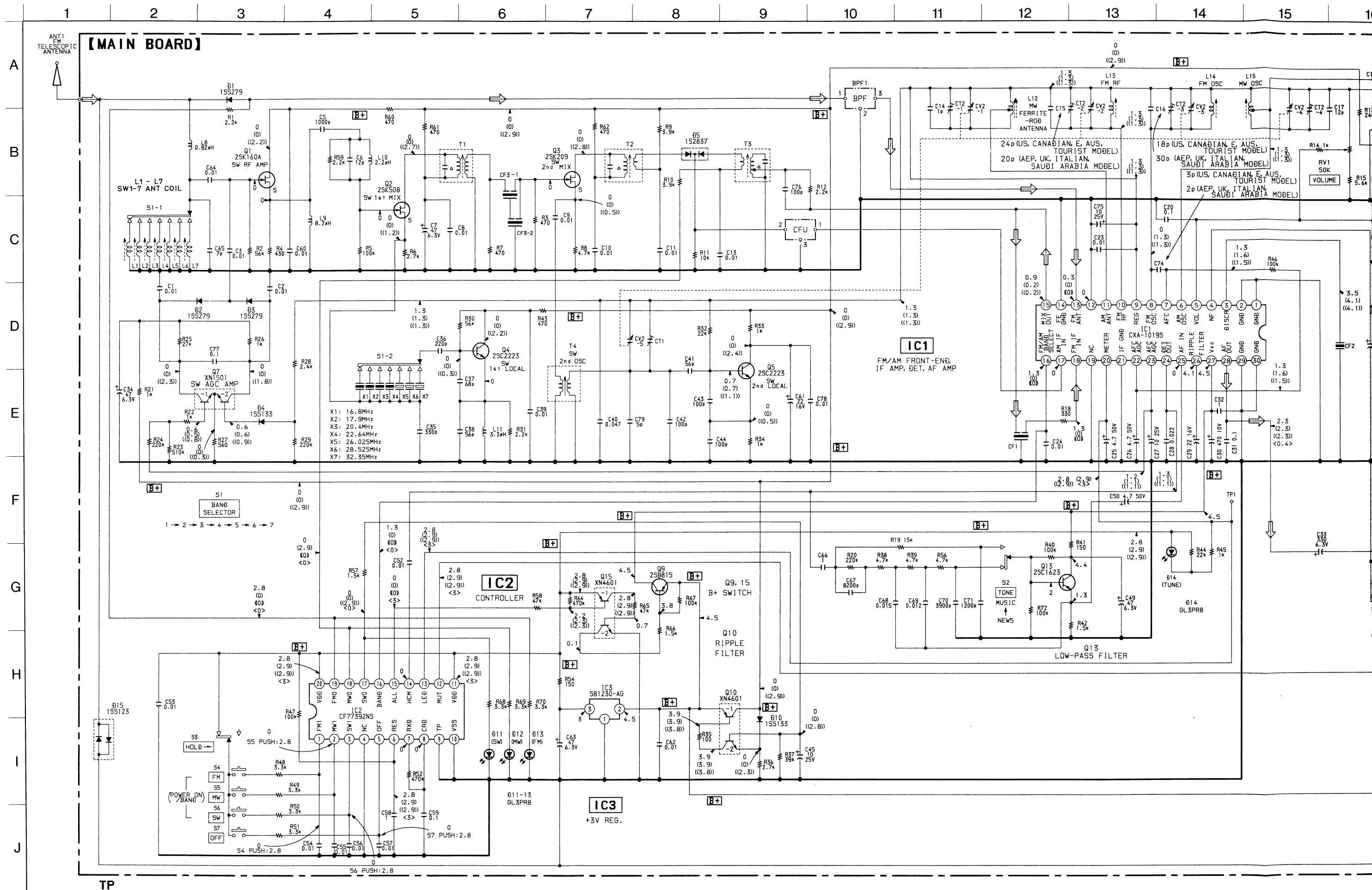
3-2. SEMICONDCUTOR LEAD LAYOUTS

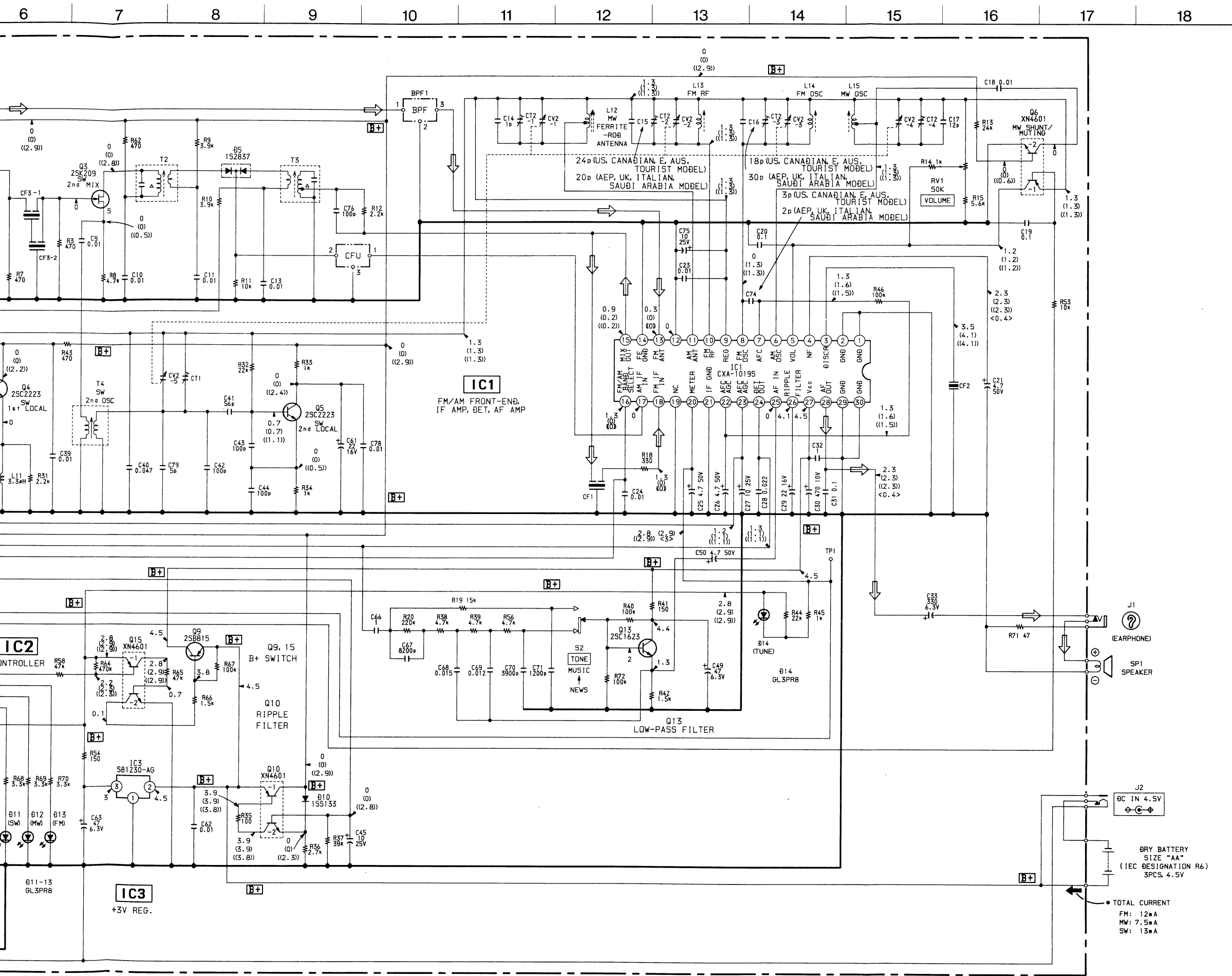


Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : Pattern on the side which is seen.

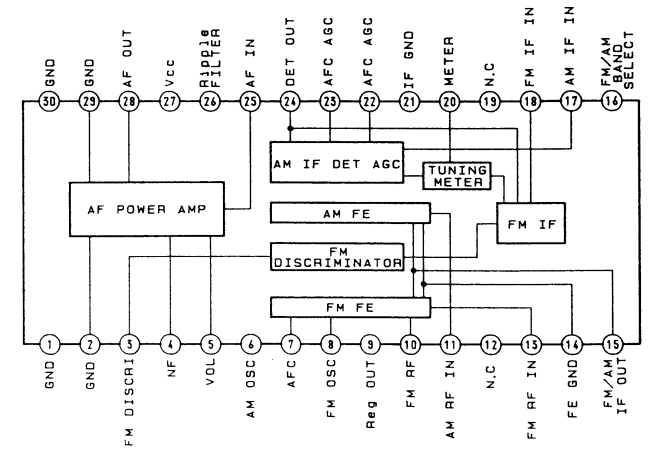
3-3. SCHEMATIC DIAGRAM



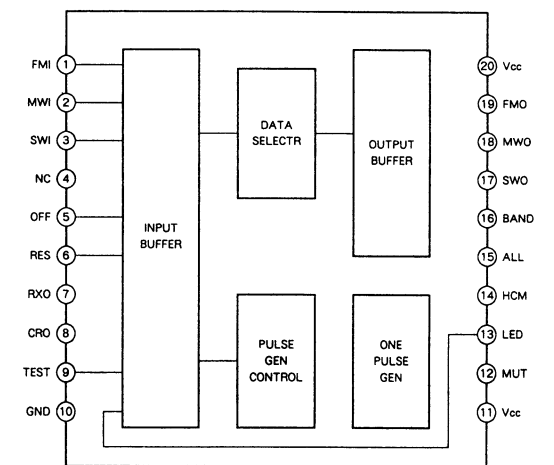


3-4. IC BLOCK DIAGRAMS

IC1 CX1019S



IC2 CF77392NC



Note:

- All capacitors are in μF unless otherwise noted. pF : μpF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- **B+** : B+ line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
() : MW
(()) : SW
< > : OFF
- Voltages are taken with a VOM. (Input impedance $10\text{M}\Omega$)
Voltage variations may be noted due to normal production tolerances.
- Signal path.
 $\Rightarrow$: FM

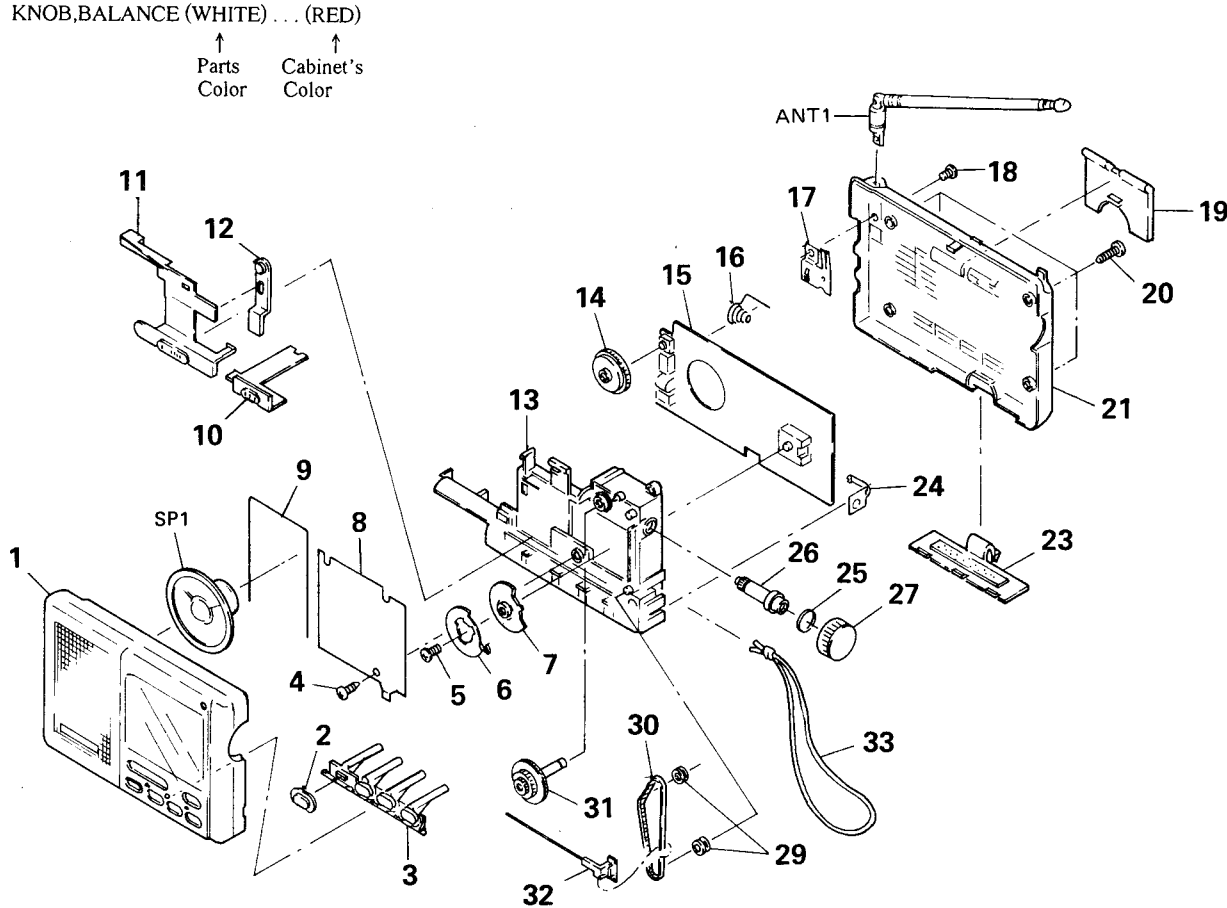
SECTION 4
EXPLODED VIEW

MAIN

MAIN

NOTE:

- -XX,-X mean standardized parts, so they may have some difference from the original one.
- Color indication of Appearance Parts.
Example:
KNOB,BALANCE (WHITE) ... (RED)
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-3365-618-1	CABINET (FRONT) ASSY (US, Canadian, E, TOURIST, Australian)		16	3-382-322-01	TERMINAL (MINUS), BATTERY	
1	X-3365-619-1	CABINET (FRONT) ASSY (AEP, Germany, UK, Italian, Saudi Arabia)		17	3-382-005-01	PLATE, CONTACT, ANTENNA	
2	3-380-912-01	BUTTON (OFF)		18	7-627-556-37	SCREW, PRECISION +P2.6X4 TYPE 1	
3	3-380-923-01	BAND, BUTTON		19	3-380-918-01	STAND	
4	7-685-131-19	SCREW +P 2.6X4 TYPE2 NON-SLIT		20	7-685-138-19	SCREW +P 2.6X16 TYPE2 NON-SLIT	
5	3-880-990-00	SCREW (1.7X3), FLAT, (+) SPECIAL		21	3-380-925-01	CABINET (REAR)	
6	3-382-003-01	GEAR (B), TUNING CAPACITOR		23	3-380-922-01	LID, BATTERY CASE	
7	3-380-914-01	GEAR (A), TUNING CAPACITOR		24	3-382-006-01	TERMINAL, BATTERY	
8	3-380-915-01	SCALE, DIAL		25	3-900-151-01	SPRING, RING	
9	3-382-325-01	SPRING (SP)		26	3-380-908-01	SHAFT (TUN)	
10	3-380-917-01	KNOB (HOLD)		27	3-380-909-01	KNOB (TUN)	
11	3-380-921-01	KNOB (SW)		29	3-900-157-01	PULLEY	
12	3-380-911-01	INDICATOR		30	3-382-324-01	BELT (TUN)	
* 13	3-380-926-01	CHASSIS		31	3-380-910-01	GEAR, MIDWAY	
14	3-380-913-01	KNOB (VOL)		32	3-380-916-01	POINTER	
* 15	A-3679-409-A	MAIN BOARD, COMPLETE) (AEP, Germany, UK, Italian, Saudi Arabia)		33	3-383-019-01	STRAP, HAND	
* 15	A-3679-410-A	MAIN BOARD, COMPLETE (US, Canadian, E, TOURIST, Australian)		ANT1	1-501-543-11	ANTENNA, TELESCOPIC	
				SP1	1-544-758-11	SPEAKER (6.6CM)	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A. uPA...: μ PA.
uPB...: μ PB. uPC...: μ PC. uPD...: μ PD.
- CAPACITORS
uF: μ F
- COILS
uH: μ H

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
*	A-3679-409-A	MAIN BOARD, COMPLETE) (AEP, Germany, UK, Italian, Saudi Arabia)	
*	A-3679-410-A	MAIN BOARD, COMPLETE (US, Canadian, E, TOURIST, Australian)	
*	3-380-924-01	HOLDER < BAND PASS FILTER >	
BPF1	1-239-359-11	FILTER, BAND PASS (AEP, Germany, UK, Italian, Saudi Arabia)	
BPF1	1-239-360-11	FILTER, BAND PASS (US, Canadian, E, TOURIST, Australian)	
		< CAPACITOR >	
C1	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C2	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C3	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C5	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C6	1-163-095-00	CERAMIC CHIP 12PF	5% 50V
C7	1-126-154-11	ELECT 47uF	20% 6.3V
C8	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C9	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C10	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C11	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C13	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C14	1-163-083-00	CERAMIC CHIP 1PF	50V
C15	1-163-100-00	CERAMIC CHIP 20PF	5% 50V (AEP, Germany, UK, Italian, Saudi Arabia)
C15	1-163-102-00	CERAMIC CHIP 24PF	5% 50V (US, Canadian, E, TOURIST, Australian)
C16	1-163-099-00	CERAMIC CHIP 18PF	5% 50V (US, Canadian, E, TOURIST, Australian)
C16	1-163-104-00	CERAMIC CHIP 30PF	5% 50V (AEP, Germany, UK, Italian, Saudi Arabia)

Ref. No.	Part No.	Description	Remark
C17	1-163-229-11	CERAMIC CHIP 12PF	5% 50V
C18	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C19	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C20	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C21	1-126-163-11	ELECT 4.7uF	20% 50V
C23	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C24	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C25	1-126-163-11	ELECT 4.7uF	20% 50V
C26	1-126-163-11	ELECT 4.7uF	20% 50V
C27	1-126-096-11	ELECT 10uF	20% 35V
C28	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V
C29	1-124-234-00	ELECT 22uF	20% 16V
C30	1-124-472-11	ELECT 470uF	20% 10V
C31	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C32	1-164-346-11	CERAMIC CHIP 1uF	16V
C33	1-124-442-00	ELECT 330uF	20% 6.3V
C34	1-126-154-11	ELECT 47uF	20% 6.3V
C35	1-163-003-11	CERAMIC CHIP 330PF	10% 50V
C36	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
C37	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C38	1-163-111-00	CERAMIC CHIP 56PF	5% 50V
C39	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C40	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C41	1-163-111-00	CERAMIC CHIP 56PF	5% 50V
C42	1-163-377-11	CERAMIC CHIP 100PF	5% 50V
C43	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C44	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C45	1-126-096-11	ELECT 10uF	20% 35V
C49	1-126-154-11	ELECT 47uF	20% 6.3V
C50	1-126-163-11	ELECT 4.7uF	20% 50V
C52	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C53	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C54	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C55	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C56	1-164-232-11	CERAMIC CHIP 0.01uF	50V

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A... uPA...: μ PA...
uPB...: μ PB... uPC...: μ PC... uPD...: μ PD...
- CAPACITORS
uF: μ F
- COILS
uH: μ H

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
*	A-3679-409-A	MAIN BOARD, COMPLETE) (AEP, Germany, UK, Italian, Saudi Arabia)	
*	A-3679-410-A	MAIN BOARD, COMPLETE (US, Canadian, E, TOURIST, Australian)	

*	3-380-924-01	HOLDER	
< BAND PASS FILTER >			
BPF1	1-239-359-11	FILTER, BAND PASS (AEP, Germany, UK, Italian, Saudi Arabia)	
BPF1	1-239-360-11	FILTER, BAND PASS (US, Canadian, E, TOURIST, Australian)	
< CAPACITOR >			
C1	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C2	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C3	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C5	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V
C6	1-163-095-00	CERAMIC CHIP 12PF 5%	50V
C7	1-126-154-11	ELECT 47uF 20%	6.3V
C8	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C9	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C10	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C11	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C13	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C14	1-163-083-00	CERAMIC CHIP 1PF	50V
C15	1-163-100-00	CERAMIC CHIP 20PF 5%	50V
(AEP, Germany, UK, Italian, Saudi Arabia)			
C15	1-163-102-00	CERAMIC CHIP 24PF 5%	50V
(US, Canadian, E, TOURIST, Australian)			
C16	1-163-099-00	CERAMIC CHIP 18PF 5%	50V
(US, Canadian, E, TOURIST, Australian)			
C16	1-163-104-00	CERAMIC CHIP 30PF 5%	50V
(AEP, Germany, UK, Italian, Saudi Arabia)			

Ref. No.	Part No.	Description	Remark
C17	1-163-229-11	CERAMIC CHIP 12PF 5%	50V
C18	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C19	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C20	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C21	1-126-163-11	ELECT 4.7uF 20%	50V
C23	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C24	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C25	1-126-163-11	ELECT 4.7uF 20%	50V
C26	1-126-163-11	ELECT 4.7uF 20%	50V
C27	1-126-096-11	ELECT 10uF 20%	35V
C28	1-163-037-11	CERAMIC CHIP 0.022uF 10%	25V
C29	1-124-234-00	ELECT 22uF 20%	16V
C30	1-124-472-11	ELECT 470uF 20%	10V
C31	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C32	1-164-346-11	CERAMIC CHIP 1uF	16V
C33	1-124-442-00	ELECT 330uF 20%	6.3V
C34	1-126-154-11	ELECT 47uF 20%	6.3V
C35	1-163-003-11	CERAMIC CHIP 330PF 10%	50V
C36	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C37	1-163-113-00	CERAMIC CHIP 68PF 5%	50V
C38	1-163-111-00	CERAMIC CHIP 56PF 5%	50V
C39	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C40	1-163-809-11	CERAMIC CHIP 0.047uF 10%	25V
C41	1-163-111-00	CERAMIC CHIP 56PF 5%	50V
C42	1-163-377-11	CERAMIC CHIP 100PF 5%	50V
C43	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C44	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C45	1-126-096-11	ELECT 10uF 20%	35V
C49	1-126-154-11	ELECT 47uF 20%	6.3V
C50	1-126-163-11	ELECT 4.7uF 20%	50V
C52	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C53	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C54	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C55	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C56	1-164-232-11	CERAMIC CHIP 0.01uF	50V

Ref. No.	Part No.	Description	Remark
C57	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C58	1-162-638-11	CERAMIC CHIP 1uF	16V
C59	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C60	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C61	1-124-234-00	ELECT 22uF 20%	16V
C62	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C63	1-126-154-11	ELECT 47uF 20%	6.3V
C64	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C65	1-163-090-00	CERAMIC CHIP 7PF	50V
C66	1-162-638-11	CERAMIC CHIP 1uF	16V
C67	1-163-020-00	CERAMIC CHIP 0.0082uF 10%	50V
C68	1-163-023-00	CERAMIC CHIP 0.015uF 5%	50V
C69	1-163-022-00	CERAMIC CHIP 0.012uF 10%	50V
C70	1-163-016-00	CERAMIC CHIP 0.0039uF 10%	50V
C71	1-163-010-11	CERAMIC CHIP 0.0012uF 10%	50V
C74	1-163-085-00	CERAMIC CHIP 2PF 50V (AEP, Germany, UK, Italian, Saudi Arabia)	
C74	1-163-086-00	CERAMIC CHIP 3PF 50V (US, Canadian, E, TOURIST, Australian)	
C75	1-126-096-11	ELECT 10uF 20%	35V
C76	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C77	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C78	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C79	1-163-088-00	CERAMIC CHIP 5PF	50V
< FILTER >			
CF1	1-567-097-61	FILTER, CERAMIC	
CF2	1-577-647-11	FILTER, CERAMIC	
CF3	1-577-047-11	FILTER, CERAMIC	
< TRIMMER >			
CT1	1-141-304-21	CAP, TRIMMER 10PF	
< VARIABLE CAPACITOR >			
CV2	1-151-649-11	CAP, VARIABLE	
CT2		(AEP, Germany, UK, Italian, Saudi Arabia)	
CV2	1-151-650-11	CAP, VARIABLE	
CT2		(US, Canadian, E, TOURIST, Australian)	
< DIODE >			
D1	8-719-123-79	DIODE 1SS279	
D2	8-719-123-79	DIODE 1SS279	
D3	8-719-123-79	DIODE 1SS279	
D4	8-719-800-76	DIODE 1SS226	
D5	8-719-400-18	DIODE MA152WK	
D10	8-719-800-76	DIODE 1SS226	

Ref. No.	Part No.	Description	Remark
D11	8-719-812-41	LED TLR124	
D12	8-719-812-41	LED TLR124	
D13	8-719-812-41	LED TLR124	
D14	8-719-812-41	LED TLR124	
D15	8-719-800-76	DIODE 1SS226	
< IC >			
IC1	8-752-035-29	IC CXA1019S	
IC2	8-759-979-91	IC CF77392NS	
IC3	8-759-937-61	IC S-81230AG	
< JACK >			
J1	1-563-836-21	JACK (EARPHONE)	
J2	1-580-681-21	JACK, DC (POLARITY UNIFIED TYPE)	
< COIL >			
L1	1-402-334-11	COIL (ANT)	
L2	1-402-332-11	COIL (ANT)	
L3	1-402-397-11	COIL (ANT)	
L4	1-402-331-11	COIL (ANT)	
L5	1-406-261-11	COIL (OSC)	
L6	1-402-433-11	COIL (ANT)	
L7	1-402-330-11	COIL (ANT)	
L8	1-414-021-11	INDUCTOR 0.82uH	
L9	1-414-027-11	INDUCTOR 8.2uH	
L10	1-410-967-11	INDUCTOR 2.2uH	
L11	1-410-322-11	INDUCTOR 3.3uH	
L12	1-402-628-11	ANTENNA, FERRITE-ROD (MW) (AEP, Germany, UK, Italian, Saudi Arabia)	
L12	1-402-633-11	ANTENNA, FERRITE-ROD (MW) (US, Canadian, E, TOURIST, Australian)	
L13	1-460-351-11	COIL (WITH CORE)	
L14	1-460-348-11	COIL (WITH CORE) (AEP, Germany, UK, Italian, Saudi Arabia)	
L14	1-460-349-11	COIL (WITH CORE) (US, Canadian, E, TOURIST, Australian)	
L15	1-406-255-11	COIL (OSC)	
< TRANSISTOR >			
Q1	8-729-117-83	TRANSISTOR 2SK160A-K25	
Q2	8-729-116-64	TRANSISTOR 2SK508-K51	
Q3	8-729-220-93	TRANSISTOR 2SK209-G	
Q4	8-729-102-07	TRANSISTOR 2SC2223-F13	
Q5	8-729-102-07	TRANSISTOR 2SC2223-F13	
Q6	8-729-402-84	TRANSISTOR XN4601	

MAIN

Ref. No.	Part No.	Description	Remark		
Q7	8-729-402-13	TRANSISTOR	XN1501		
Q9	8-729-807-87	TRANSISTOR	2SB1295-UL6		
Q10	8-729-402-84	TRANSISTOR	XN4601		
Q13	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q15	8-729-402-84	TRANSISTOR	XN4601		
< RESISTOR >					
R1	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R2	1-216-091-00	METAL CHIP	56K	5%	1/10W
R3	1-216-041-00	METAL CHIP	470	5%	1/10W
R4	1-216-040-00	METAL GLAZE	430	5%	1/10W
R5	1-216-097-00	METAL CHIP	100K	5%	1/10W
R6	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R7	1-216-041-00	METAL CHIP	470	5%	1/10W
R8	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R9	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R10	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R11	1-216-073-00	METAL CHIP	10K	5%	1/10W
R12	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R13	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R14	1-216-049-00	METAL CHIP	1K	5%	1/10W
R15	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R16	1-216-295-00	METAL CHIP	0	5%	1/10W
R18	1-216-037-00	METAL CHIP	330	5%	1/10W
R19	1-216-077-00	METAL CHIP	15K	5%	1/10W
R20	1-216-105-00	METAL CHIP	220K	5%	1/10W
R21	1-216-049-00	METAL CHIP	1K	5%	1/10W
R22	1-216-049-00	METAL CHIP	1K	5%	1/10W
R23	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R24	1-216-105-00	METAL CHIP	220K	5%	1/10W
R25	1-216-083-00	METAL CHIP	27K	5%	1/10W
R26	1-216-049-00	METAL CHIP	1K	5%	1/10W
R27	1-216-043-00	METAL CHIP	560	5%	1/10W
R28	1-216-058-00	METAL GLAZE	2.4K	5%	1/10W
R29	1-216-105-00	METAL CHIP	220K	5%	1/10W
R30	1-216-091-00	METAL CHIP	56K	5%	1/10W
R31	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R32	1-216-081-00	METAL CHIP	22K	5%	1/10W
R33	1-216-198-00	METAL CHIP	1K	5%	1/8W
R34	1-216-049-00	METAL CHIP	1K	5%	1/10W
R35	1-216-025-00	METAL CHIP	100	5%	1/10W
R36	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R37	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R38	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R39	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R40	1-216-097-00	METAL CHIP	100K	5%	1/10W
R41	1-216-029-00	METAL CHIP	150	5%	1/10W

Ref. No.	Part No.	Description	Remark		
R42	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R43	1-216-041-00	METAL CHIP	470	5%	1/10W
R44	1-216-081-00	METAL CHIP	22K	5%	1/10W
R45	1-216-049-00	METAL CHIP	1K	5%	1/10W
R46	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R47	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R48	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R49	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R50	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R51	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R52	1-216-113-00	METAL CHIP	470K	5%	1/10W
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W
R54	1-216-178-00	METAL GLAZE	150	5%	1/8W
R56	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R57	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R58	1-216-089-00	METAL CHIP	47K	5%	1/10W
R59	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R60	1-216-041-00	METAL CHIP	470	5%	1/10W
R61	1-216-190-00	METAL GLAZE	470	5%	1/8W
R62	1-216-190-00	METAL GLAZE	470	5%	1/8W
R63	1-216-296-00	METAL CHIP	0	5%	1/8W
R64	1-216-113-00	METAL CHIP	470K	5%	1/10W
R65	1-216-089-00	METAL CHIP	47K	5%	1/10W
R66	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R67	1-216-097-00	METAL CHIP	100K	5%	1/10W
R68	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R69	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R70	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R71	1-216-017-00	METAL CHIP	47	5%	1/10W
R72	1-216-097-00	METAL CHIP	100K	5%	1/10W
R73	1-216-296-00	METAL CHIP	0	5%	1/8W
R74	1-216-296-00	METAL CHIP	0	5%	1/8W
R75	1-216-296-00	METAL CHIP	0	5%	1/8W
R76	1-216-296-00	METAL CHIP	0	5%	1/8W
R77	1-216-296-00	METAL CHIP	0	5%	1/8W
R78	1-216-296-00	METAL CHIP	0	5%	1/8W
R79	1-216-296-00	METAL CHIP	0	5%	1/8W
R80	1-216-296-00	METAL CHIP	0	5%	1/8W
R81	1-216-295-00	METAL CHIP	0	5%	1/10W
R82	1-216-296-00	METAL CHIP	0	5%	1/8W
R83	1-216-296-00	METAL CHIP	0	5%	1/8W
R84	1-216-296-00	METAL CHIP	0	5%	1/8W
R85	1-216-296-00	METAL CHIP	0	5%	1/8W
R86	1-216-296-00	METAL CHIP	0	5%	1/8W
R87	1-216-296-00	METAL CHIP	0	5%	1/8W
R88	1-216-296-00	METAL CHIP	0	5%	1/8W
R89	1-216-296-00	METAL CHIP	0	5%	1/8W
R90	1-216-296-00	METAL CHIP	0	5%	1/8W
R91	1-216-296-00	METAL CHIP	0	5%	1/8W

MAIN

Ref. No.	Part No.	Description	Remark
R92	1-216-296-00	METAL CHIP	0 5% 1/8W
R93	1-216-296-00	METAL CHIP	0 5% 1/8W
R94	1-216-296-00	METAL CHIP	0 5% 1/8W
R95	1-216-296-00	METAL CHIP	0 5% 1/8W
R96	1-216-296-00	METAL CHIP	0 5% 1/8W
R97	1-216-295-00	METAL CHIP	0 5% 1/10W
R98	1-216-295-00	METAL CHIP	0 5% 1/10W
R99	1-216-295-00	METAL CHIP	0 5% 1/10W
R100	1-216-295-00	METAL CHIP	0 5% 1/10W
R101	1-216-295-00	METAL CHIP	0 5% 1/10W
R102	1-216-295-00	METAL CHIP	0 5% 1/10W
R103	1-216-295-00	METAL CHIP	0 5% 1/10W
R104	1-216-295-00	METAL CHIP	0 5% 1/10W
R105	1-216-296-00	METAL CHIP	0 5% 1/8W
R106	1-216-295-00	METAL CHIP	0 5% 1/10W
R107	1-216-296-00	METAL CHIP	0 5% 1/8W
R108	1-216-295-00	METAL CHIP	0 5% 1/10W
R109	1-216-295-00	METAL CHIP	0 5% 1/10W
R110	1-216-295-00	METAL CHIP	0 5% 1/10W
R111	1-216-295-00	METAL CHIP	0 5% 1/10W
< VARIABLE RESISTOR >			
RV1	1-238-555-11	RES, VAR, CARBON 50K (VOLUME)	
< SWITCH >			
S1	1-554-979-11	SWITCH, SLIDE (BAND SELECTOR)	
S2	1-572-761-31	SWITCH, SLIDE (TONE)	
S3	1-553-510-00	SWITCH, SLIDE (HOLD)	
S4	1-692-016-11	SWITCH, KEY BOARD (FM)	
S5	1-692-016-11	SWITCH, KEY BOARD (MW)	
S6	1-692-016-11	SWITCH, KEY BOARD (SW)	
S7	1-692-016-11	SWITCH, KEY BOARD (OFF)	
< TRANSFORMER >			
T1	1-404-764-11	TRANSFORMER, 1F	
T2	1-404-362-61	TRANSFORMER, 1F	
T3	1-404-362-61	TRANSFORMER, 1F	
T4	1-406-498-11	COIL (OSC)	
< VIBRATOR >			
X1	1-577-447-11	VIBRATOR, CERAMIC, 16.8MHz	
X2	1-577-448-11	VIBRATOR, CERAMIC, 17.9MHz	
X3	1-577-449-11	VIBRATOR, CERAMIC, 20.4MHz	
X4	1-577-445-11	VIBRATOR, CERAMIC, 22.64MHz	
X5	1-579-684-11	VIBRATOR, CRYSTAL, 26.025MHz	
X6	1-579-685-11	VIBRATOR, CRYSTAL, 28.525MHz	
X7	1-579-686-11	VIBRATOR, CRYSTAL, 32.35MHz	

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

ANT1	1-501-543-11	ANTENNA, TELESCOPIC	
SP1	1-544-758-11	SPEAKER (6.6CM)	

		ACCESSORIES & PACKING MATERIALS	

*	3-381-803-01	INDIVIDUAL CARTON	
	3-755-247-01	MANUAL, INSTRUCTION (TOURIST) (JAPANESE/ENGLISH/KOREAN)	
	3-755-247-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/ SPANISH/PORTUGUESE/SWEDISH) (US, Canadian, AEP, E, Australian)	
	3-755-247-41	MANUAL, INSTRUCTION (ENGLISH/GERMAN/ FRENCH/ITALIAN/DUTCH) (AEP, Germany, UK, Italian)	
	3-755-247-51	MANUAL, INSTRUCTION (ENGLISH/ARABIC) (Saudi Arabia)	
	3-893-940-17	GUIDE, SHORT WAVE	
	3-383-148-01	CASE, CARRYING (AEP, Germany, UK, Italian, E, Saudi Arabia, TOURIST, Australian)	
	3-383-735-01	CASE, CARRYING (US, Canadian)	